

APPENDIX OSS-RESALE

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APPENDIX OSS
(ACCESS TO OPERATIONS SUPPORT SYSTEMS FUNCTIONS)

1. INTRODUCTION

- 1.1 This Appendix sets forth terms and conditions for nondiscriminatory access to Operations Support Systems (OSS) “functions” to CLEC for pre-ordering, ordering, provisioning, maintenance/repair, and billing provided by the applicable SBC Communications Inc. (SBC) owned Incumbent Local Exchange Carrier (ILEC) and CLEC.
- 1.2 SBC Communications Inc. (SBC) means the holding company which owns the following ILECs: Illinois Bell Telephone Company, Indiana Bell Telephone Company Incorporated, Michigan Bell Telephone Company, Nevada Bell Telephone Company, The Ohio Bell Telephone Company, Pacific Bell Telephone Company, The Southern New England Telephone Company, Southwestern Bell Telephone Company and/or Wisconsin Bell, Inc. d/b/a Ameritech Wisconsin.
- 1.3 **SBC-13STATE** - As used herein, **SBC-13STATE** means the applicable above listed ILEC(s) doing business in Arkansas, California, Connecticut, Illinois, Indiana, Kansas, Michigan, Missouri, Nevada, Ohio, Oklahoma, Texas, and Wisconsin.
- 1.4 **SBC-12STATE** - As used herein, **SBC-12STATE** means the applicable above listed ILEC(s) doing business in Arkansas, California, Illinois, Indiana, Kansas, Michigan, Missouri, Nevada, Ohio, Oklahoma, Texas, and Wisconsin.
- 1.5 **SBC-8STATE** - As used herein, **SBC-8STATE** means an applicable above listed ILEC(s) doing business in Arkansas, California, Connecticut, Kansas, Missouri, Nevada, Oklahoma, and Texas.
- 1.6 **SBC-7STATE** - As used herein, **SBC-7STATE** means the applicable above listed ILEC(s) doing business in Arkansas, California, Kansas, Missouri, Nevada, Oklahoma, and Texas.
- 1.7 **SBC-SWBT** - As used herein, **SBC-SWBT** means the applicable above listed ILEC(s) doing business in Arkansas, Kansas, Missouri, Oklahoma, and Texas.
- 1.8 **SBC-AMERITECH** - As used herein, **SBC-AMERITECH** means the applicable above listed ILEC(s) doing business in Illinois, Indiana, Michigan, Ohio, and Wisconsin.
- 1.9 **PACIFIC** -As used herein, **PACIFIC** means the applicable above listed ILEC doing business in California.

- 1.10 **NEVADA** - As used herein, **NEVADA** means the applicable above listed ILEC doing business in Nevada.
- 1.11 **SNET** - As used herein, **SNET** means the applicable above listed ILEC doing business in Connecticut.
- 1.12 **SBC-13STATE** has established performance measurements to illustrate non-discriminatory access. These measurements are represented in Appendix Performance Measurements.

2. DEFINITIONS

- 2.1 “**LSC**” means (i) the Local Service Center (LSC) for **SWBT**, **PACIFIC**, and **NEVADA**; (ii) Local Exchange Carrier Center (LECC) for **SNET**; and (iii) Information Industry Service Center (IISC) for **SBC-AMERITECH**.
- 2.2 “**LOC**” means (i) the Local Operations Center (LOC) for **SWBT**, **PACIFIC**, **NEVADA**, and **SNET**; and (ii) the Customer Response Unit (CRU) for **SBC-AMERITECH**.

3. GENERAL CONDITIONS

- 3.1 Resale functions will be accessible via electronic interface(s), as described herein, where such functions are available. The Parties agree that electronic order processing is more efficient than manual order processing. During implementation the Parties will negotiate a threshold volume of orders after which electronic ordering is required. Once CLEC is submitting more than the agreed to threshold amount, but not later than twelve (12) months from the Effective Date of this Agreement, CLEC will no longer submit orders manually (and **SBC-13 STATE** shall not be required to accept and process orders manually) except when the electronic order processing is unavailable for a substantial period of time, or where a given order cannot be processed electronically.
- 3.2 **Proper Use of OSS interfaces:**
 - 3.2.1 For **SBC-7STATE**, CLEC agrees to utilize **SBC-7STATE** electronic interfaces, as described herein, only for the purposes of establishing and maintaining Resale Services through **SBC-7STATE**. In addition, CLEC agrees that such use will comply with the summary of **SBC-7STATE**'s Operating Practice No. 113, Protection of Electronic Information, titled “Competitive Local Exchange Carrier Security Policies and Guidelines”. Failure to comply with such security guidelines may result in forfeiture of electronic access to OSS

functionality. In addition, CLEC shall be responsible for and indemnifies **SBC-7STATE** against any cost, expense or liability relating to any unauthorized entry or access into, or use or manipulation of **SBC-7STATE**'s OSS from CLEC systems, workstations or terminals or by CLEC employees or agents or any third party gaining access through information and/or facilities obtained from or utilized by CLEC and shall pay **SBC-7STATE** for any and all damages caused by such unauthorized entry.

3.2.2 For **SNET** region, CLEC agrees to access and utilize **SNET**'s Enhanced Services Access Platform, (ESAP), only for the purposes described herein. CLEC agrees that its access and use of ESAP shall, at all times, comport with SNET's "Wholesale CIWin User Guide", "EF User Guide", "ESAP Installation Guide", "ESAP Help Desk Guide", "CLEC Mechanized Interface Specification", and any other guide describing the interface or interface requirements that SNET may, from time to time, provide CLEC (collectively, the "Guides"). Failure materially to adhere to any material provision of such Guides may result, among other things, in forfeiture of electronic access to **SNET**'s OSS functionality via ESAP upon notice. In addition, CLEC shall be responsible for and indemnifies **SNET** against any cost, expense or liability relating to any unauthorized entry or access into, or use or manipulation of **SNET**'s OSS or ESAP from CLEC complimentary systems, workstations or terminals or by CLEC employees or agents any third party gaining access through information and/or facilities obtained from or utilized by CLEC and shall pay **SNET** for any and all damages caused by such unauthorized entry.

3.3 Within **SBC-7STATE** regions, CLEC's access to pre-order functions described in 4.2.2 and 4.3.2 will only be utilized to view Customer Proprietary Network Information (CPNI) of another carrier's End User where CLEC has obtained an authorization for release of CPNI from the End User and has obtained an authorization to become the End User's Local Service Provider. Within **SNET**, and **SBC-AMERITECH** regions, CLEC's access to pre-order functions described in 4.2.2 and 4.3.2 will only be utilized to view Customer Proprietary Network Information (CPNI) of the applicable ILEC's or requesting CLEC's End User account where CLEC has obtained an authorization for release of CPNI from the End User and has obtained an authorization to become the End User's Local Service Provider. The authorization for release of CPNI must substantially reflect the following:

3.3.1 Within **SBC-7STATE** regions, "This written consent serves as instruction to all holders of my local exchange telecommunications Customer Proprietary Network Information (CPNI) and account identification information to provide such information to the undersigned CLEC. Specifically, I authorize disclosure of my account billing name, billing address, and directory listing information, and

CPNI, including, service address, service and feature subscription, long distance carrier identity, and pending service order activity. I have authorized, CLEC to become my local service provider. This Authorization remains in effect until such time that I revoke it directly or appoint another individual/company with such capacity or undersigned receives notice to disconnect my local exchange service or notice that a service disconnect has been performed. At and from such time, this Authorization is null and void.”

3.3.2 Within **SNET** region, “This written consent serves as instruction to all holders of any local exchange telecommunications Customer Proprietary Network Information (“CPNI”) and account identification information to provide such information to [Name of CLEC]. Specifically, I authorize disclosure of any account billing name, billing address, and directory listing information, and CPNI, including, service address, service and feature subscription and long distance carrier identity. This Authorization remains in effect until such time as I [Name of Customer] revoke(s) it directly or appoint(s) another individual/company with such capacity or [Name of CLEC] receives notice to disconnect my local exchange service or notice that a service disconnect has been performed. At and from such time, this Authorization is null and void.”

3.3.3 In **SBC-13STATE** regions, the CLEC may choose to use *this* CPNI language (in Section 3.3.3) in lieu of using the CPNI language in sections 3.3.1 or 3.3.2 above (depending on region). CLEC must have documented authorization for change in local exchange service and release of CPNI that adheres to all requirements of state and federal law, as applicable.

3.3.3.1 This section applies to **PACIFIC** ONLY for those CLECs who opted to use CPNI language in Section 3.3.3. For residence End Users, prior to accessing such information, CLEC shall, on its own behalf and on behalf of **PACIFIC**, comply with all applicable requirements of Section 2891 of the California Public Utilities Code and 47 USC 222 (and implementing FCC decisions thereunder), and, where accessing such information via an electronic interface, CLEC shall have obtained an authorization to become the End User’s local service provider. Accessing such information by CLEC shall constitute certification that CLEC is in compliance with applicable requirements of Section 2891 and Section 222 (and implementing FCC decisions thereunder) and has complied with the prior sentence. CLEC shall receive and retain such information in conformance with the requirements of 47 USC 222 (and implementing FCC decisions thereunder). CLEC agrees to indemnify, defend and hold harmless **PACIFIC** against any claim made by a residence End User or

governmental entity against **PACIFIC** or CLEC under Section 2891 or Section 222 (and implementing FCC decisions thereunder) or for any breach by CLEC of this section.

- 3.3.4 Throughout **SBC-13STATE** region, CLEC is solely responsible for determining whether proper authorization has been obtained and holds **SBC-13STATE** harmless from any loss on account of CLEC's failure to obtain proper CPNI consent from an End User.
- 3.4 By utilizing electronic interfaces to access OSS functions, CLEC agrees to perform accurate and correct ordering as it relates to the application of Resale rates and charges, subject to the terms of this Agreement and applicable tariffs dependent on region of operation. CLEC is also responsible for all actions of its employees using any of **SBC-13STATE**'s OSS systems. As such, CLEC agrees to accept and pay all reasonable costs or expenses, including labor costs, incurred by **SBC-13STATE** caused by any and all inaccurate ordering or usage of the OSS, if such costs are not already recovered through other charges assessed by **SBC-13STATE** to CLEC. In addition, CLEC agrees to indemnify and hold **SBC-13STATE** harmless against any claim made by an End User of CLEC or other third parties against **SBC-13STATE** caused by or related to CLEC's use of any **SBC-13STATE** OSS. In addition, **SBC-13STATE** retains the right to audit all activities by CLEC using any **SBC-13STATE** OSS. All such information obtained through an audit shall be deemed proprietary and shall be covered by the Parties Non-Disclosure Agreement signed prior to or in conjunction with the execution of this Agreement.
- 3.5 In areas where Resale Service order functions are not available via an electronic interface for the pre-order, ordering and provisioning processes, **SBC-13STATE** and CLEC will use manual processes. Should SBC develop electronic interfaces for these functions for itself, SBC will make electronic access available to CLEC within the specific operating region.
- 3.6 The Information Services (I.S.) Call Center for the **SBC-8STATE** region, and the Resource Center for the **SBC-AMERITECH** region provides for technical support function of electronic OSS interfaces. CLEC will also provide a single point of contact for technical issues related to the CLEC's electronic interfaces.
- 3.7 **SBC-13STATE** and CLEC will establish interface contingency plans and disaster recovery plans for the pre-order, ordering and provisioning of Resale services.
- 3.8 The Parties will follow the final adopted guidelines of Change Management, as may be modified from time to time in accordance with the Change Management principles.

- 3.9 **SBC-13STATE** will and CLEC may participate in the Order and Billing Forum (OBF) and the Telecommunications Industry Forum (TCIF) to establish and conform to uniform industry guidelines for electronic interfaces for pre-order, ordering, and provisioning. Neither Party waives its rights as participants in such forums or in the implementation of the guidelines. To achieve system functionality as quickly as possible, the Parties acknowledge that **SBC-13STATE** may deploy interfaces with requirements developed in advance of industry guidelines. Thus, subsequent modifications may be necessary to comply with emerging guidelines. CLEC and **SBC-13STATE** are individually responsible for evaluating the risk of developing their respective systems in advance of guidelines and agree to support their own system modifications to comply with new requirements. In addition, **SBC-13STATE** has the right to define Local Service Request (LSR) Usage requirements according to the General Section 1.0, paragraph 1.4 of the practices in the OBF Local Service Ordering Guidelines (LSOG), which states: "Options described in this practice may not be applicable to individual providers tariffs; therefore, use of either the field or valid entries within the field is based on the providers tariffs/practices."
- 3.10 Due to enhancements and on-going development of access to **SBC-13STATE**'s OSS functions, certain interfaces described in this Appendix may be modified, temporarily unavailable or may be phased out after execution of this Appendix. **SBC-13STATE** shall provide proper notice of interface phase-out as required by the Change Management process.
- 3.11 CLEC is responsible for obtaining operating system software and hardware to access **SBC-13STATE** OSS functions as specified in: "Requirements for Access to Southwestern Bell OSS Functions" and "Requirements for Access to Pacific Bell OSS Functions" and "SNET W-CIWin Installation Guide" and "Ameritech Electronic Service Order Guide", or any other documents or interface requirements subsequently generated by **SBC-13STATE** for any of its regions.

4. PRE-ORDERING

- 4.1 **SBC-13STATE** will provide real time access to pre-order functions to support CLEC ordering of Resale services. The Parties acknowledge that ordering requirements necessitate the use of current, real time pre-order information to accurately build service orders. The following lists represent pre-order functions that are available to CLEC so that CLEC order requests may be created to comply with **SBC-13STATE** region-specific ordering requirements.
- 4.2 **Pre-ordering functions for Resale Services include:**

- 4.2.1 For **SBC-7STATE**, features and services available at a valid service address (as applicable) or, for **SNET**, features will be available based on NPA-NXX;
 - 4.2.2 Access to **SBC-13STATE** retail or resold CPNI and account information for pre-ordering will include: billing name, service address, billing address, service and feature subscription, directory listing information, long distance carrier identity, and for **SBC-12STATE** only, pending service order activity. CLEC agrees that CLEC's representatives will not access the information specified in this subsection until after the End User requests that his or her Local Service Provider be changed to CLEC, and an End User authorization for release of CPNI complies with conditions as described in section 3.2 of this Appendix.
 - 4.2.3 A telephone number (if the End User does not have one assigned) with the End User on-line;
 - 4.2.4 Service availability dates to the End User (where available);
 - 4.2.5 Information regarding whether dispatch is required;
 - 4.2.6 For **SBC-12STATE**, Primary Interexchange Carrier (PIC) options for intraLATA toll and interLATA toll; and
 - 4.2.7 Service address verification.
- 4.3 **Electronic Access to Pre-Order Functions:**
- 4.3.1 **SBC-SWBT** Resale Services Pre-order System Availability: **SBC-SWBT** will provide CLEC access to one or more of the following systems:
 - 4.3.1.1 Residential Easy Access Sales Environment (R-EASE): R-EASE is an ordering entry system through which **SBC-SWBT** provides CLEC access to the functions of pre-ordering to order **SBC-SWBT** residential Resale services.
 - 4.3.1.2 Business Easy Access Sales Environment (B-EASE): B-EASE is an ordering entry system through which **SBC-SWBT** provides CLEC access to the functions of pre-ordering to order **SBC-SWBT** business Resale services.
 - 4.3.2 **PACIFIC** and **NEVADA** Resale Services Pre-Order System Availability: **PACIFIC** will provide CLEC access to the following system:

- 4.3.2.1 Service Order Retrieval and Distribution (SORD) is available for the pre-order function of viewing the CPNI, when SORD is used to order **PACIFIC** Resale service.
- 4.3.2.2 StarWriter is available for the pre-ordering functions listed in section 4.2 when StarWriter is used to order **PACIFIC** single line, basic exchange, residential Resale services.
- 4.3.3 **SNET** Resale Service Pre-Order System Availability:
SNET will provide CLEC access to the following applications through its proprietary W-CIWin interface.
 - 4.3.3.1 W-SNAP is an order entry application through which **SNET** provides CLEC access to pre-ordering functionality embedded in the ordering tool.
 - 4.3.3.2 CCTOOLS is a toolbar that provides icons for accessing pre-order GUI applications.
 - 4.3.3.3 Electronic Forms (EF) is an automated workflow process for obtaining pre-order information for specific complex resale products.
- 4.3.4 **SNET** Resale Services Pre-Order System Availability:
SNET will provide CLEC access to its MSAP:
 - 4.3.4.1 MSAP is an Electronic Data Interchange (EDI) based interface which provides access to pre-order functions.
- 4.3.5 **SBC-AMERITECH** Resale Services Pre-Order System Availability:
SBC-AMERITECH will provide CLEC access to the following system:
 - 4.3.5.1 TCNet and EDI are available for the pre-ordering functions listed in section 4.2.
- 4.3.6 Resale Pre-order System Availability: **SBC-7STATE** will provide CLEC access to the following systems (except as noted in section 4.3.6.3):
 - 4.3.6.1 DataGate is a transaction-based data query system through which **SBC-7STATE** provides CLEC access to pre-ordering functions. This gateway shall be a Transmission Control Protocol/Internet Protocol (TCP/IP) gateway and will, once CLEC has developed its own interface, allow CLEC to access the pre-order functions for

Resale services. An industry standard EDI/CORBA Pre-ordering Gateway is also provided by **SBC-7STATE**. This pre-ordering gateway supports two structural protocols, EDI and CORBA, as recommended by the technical industry committees. EDI/CORBA, like DataGate, is an application-to-application interface that can be integrated with the CLEC's own negotiation system and that supports both Resale services. Where DataGate follows industry guidelines, but is based on **SBC-7STATE**'s proprietary pre-ordering functionality, EDI/CORBA is an industry-wide standard pre-ordering interface.

4.3.6.2 Verigate is a CLEC interface developed by **SBC-7STATE** that provides access to the pre-ordering functions for Resale Services. Verigate is accessible via Toolbar.

4.3.6.3 CESAR is a **PACIFIC** and **NEVADA** system which is available on an interim basis provides pre-order functions for Resale service, with the exception of viewing CPNI. The pre-order functionality of CESAR will be replaced by Verigate.

4.4 **Other Pre-order Function Availability:**

4.4.1 Where pre-ordering functions are not available electronically, CLEC will manually request this information from the LSC, dependent on operating region, for inclusion on the service order request.

4.4.2 Upon request, but not more frequently than once a month, **SBC-SWBT** will provide CLEC certain pre-order information in batch transmission for the purposes of back-up data for periods of system unavailability. Specifically for **SBC-SWBT** and **SBC-AMERITECH**, the following database information may be electronically provided: Street Address Guide (SAG) Guide, Service and Feature Availability by NXX, and a PIC list, to support address verification, service and feature availability and PIC availability, respectively. Specifically for **PACIFIC**, the following database information may be electronically provided: Street Address Guide (SAG) Guide (with planned availability no later than June 1st, 2000), and a PIC list, to support address verification, service and feature availability and PIC availability, respectively. The Parties recognize such information must be used to construct order requests only in exception handling situations.

5. **ORDERING/PROVISIONING**

5.1 **SBC-13STATE** provides access to ordering functions (as measured from the time **SBC-13STATE** receives accurate service requests from the interface) to support CLEC provisioning of Resale services via one or more electronic interfaces. To order Resale services, CLEC will format the service request to identify what features, services, or elements it wishes **SBC-13STATE** to provision in accordance with applicable **SBC-13STATE** ordering requirements. **SBC-13STATE** will provide CLEC access to one or more of the following systems or interfaces:

5.2 **Resale Service Order Request System Availability:**

5.2.1 In **SBC-SWBT**:

5.2.1.1 R-EASE is available for the ordering of residential Resale services.

5.2.1.2 B-EASE is available for the ordering of business Resale services.

5.2.1.3 SORD interface provides CLECs with the ability to create Resale orders as well as certain complex Resale orders that cannot be ordered through Easy Access Sales Environment (EASE), Electronic Data Interchange (EDI) or Local Exchange (LEX). In addition, the SORD interface supports the modification of service orders submitted electronically by CLEC. The Parties agree that the following conditions are applicable to electronically generated service orders with errors corrected via SORD: If CLEC chooses to use SORD to issue orders, then CLEC becomes responsible for correction of all service order errors between order application and order completion that occur on mechanically generated service orders created or modified by CLEC. CLEC may need to call the LSC to obtain additional information. CLEC may also choose to clear service order errors, even though CLEC is not initiating service orders via SORD. CLEC would then become responsible for correction of all errors, as detailed above. For terms and conditions for service order error correction within SORD, see section 5.4.3.

5.2.2 In **NEVADA** only:

5.2.2.1 Pacific Bell Service Manager (PBSM) is available for ordering Centrex and ISDN Resale services.

5.2.2.2 When available, SORD system will support the ordering of all Resale Services.

5.2.3 In **PACIFIC** only:

5.2.3.1 StarWriter supports the ordering of single line, basic exchange, and residential Resale services.

5.2.3.2 Pacific Bell Service Manager (PBSM) is available for ordering Centrex and ISDN Resale services.

5.2.3.3 SORD system supports the ordering of all Resale Services.

5.2.4 In **SNET**, Resale ordering is supported by W-CIWin (**SNET**'s proprietary GUI interface).

5.2.4.1 W-SNAP is made available for the ordering of non-complex Resale products and services.

5.2.4.2 Order Negotiation (as part of CCTOOLS) is made available for the ordering of complex Resale products and services.

5.2.4.3 Electronic Forms (EF) is an automated workflow process for ordering of specific complex Resale products and services.

5.3 **Resale Service Order Request Ordering System Availability:**

5.3.1 **SBC-13STATE** makes available to CLEC an Electronic Data Interchange (EDI) interface for transmission of **SBC-13STATE** ordering requirements via formats provided on the Local Service Request (LSR) as defined by the OBF and via EDI mapping as defined by TCIF. In ordering and provisioning Resale, CLEC and **SBC-13STATE** will utilize industry guidelines developed by OBF and TCIF EDI to transmit data based upon **SBC-13STATE**'s Resale ordering requirements, dependent on operating region. In addition, Local Number Portability (LNP) and, where applicable, Interim Number Portability (INP), will be ordered consistent with the OBF LSR and EDI process.

5.3.2 For **SBC-SWBT** the SORD interface supports the modification of service orders submitted electronically by CLEC. The Parties agree that the following conditions are applicable to electronically generated service orders with errors corrected via SORD: If CLEC chooses to use SORD to issue orders, then CLEC becomes responsible for correction of all service order errors between order application and order completion that occur on mechanically generated service orders created or modified by CLEC. CLEC may need to call the LSC to obtain additional information. CLEC may also choose to clear service order

errors, even though CLEC is not initiating service orders via SORD. CLEC would then become responsible for correction of all errors, as detailed above. For terms and conditions for service order error correction within SORD, see section 5.4.3.

- 5.3.3 In **SBC-PACIFIC** region, any service order errors will be corrected by the LSC. CLEC will be given a list generated by the LSC of CLEC order errors, and CLEC will be responsible for contacting their customer when necessary to clear an error. With CLEC being the point of contact for their customer, the CLEC agrees to respond timely to the LSC with correct information in order for LSC to complete the correction of the error and subsequent completion of the order. For terms and conditions for service order error correction within SORD, see section 5.4.3.
- 5.3.4 For **SBC-SWBT** and **PACIFIC**, LEX is an End User interface that provides access to the ordering functions for Resale Services.
- 5.3.5 In **SNET**, MSAP (**SNET**'s EDI-based industry standard app-to-app interface) is available for the ordering of both complex and non-complex Resale Services.

5.4 **Provisioning for Resale Services in SBC-SWBT:** **SBC-SWBT** will provision Resale services as detailed in CLEC order requests. Access to status on such orders will be provided via the following electronic interfaces:

- 5.4.1 Order Status will allow CLEC to check service order status. Order Status and Provisioning Order Status are both accessible via **SBC-SWBT** Toolbar. In addition, pending orders can be viewed in SORD.
- 5.4.2 For EDI ordering, **SBC-SWBT** will provide, and CLEC shall use, an EDI interface for transferring and receiving orders, Firm Order Confirmation (FOC), service completion, and, as available, other provisioning data and information. **SBC-SWBT** will provide CLEC with a FOC for each Resale service request.
- 5.4.3 As detailed in sections 5.2.1 and 5.3.2, the Parties agree that the following timelines are applicable to electronically generated service orders with errors corrected via SORD:
 - 5.4.3.1 Errors occurring between application and distribution must be corrected within five (5) hours for a simple order and within twenty four (24) hours for a complex order;

- 5.4.3.2 Error Service Order Image (ESOI) errors must be corrected within three (3) business hours.
 - 5.4.3.3 Service orders will be excluded from calculation of the results for all related performance measurements, described in Appendix Performance Measurements, if CLEC fails to correct service order errors within the timeframes specified in this Section 5.4.3.
 - 5.4.3.4 Additionally, service orders with errors that occur after order generation, but prior to distribution will not qualify for an SBC issued FOC.
 - 5.4.4 A file transmission may be provided to confirm order completions for R-EASE or B-EASE order processing. This file will provide service order information of all distributed and completed orders for CLEC.
- 5.5 Provisioning for Resale services in **PACIFIC** and **NEVADA**: **PACIFIC** and **NEVADA** will provision Resale services as detailed in CLEC order requests. Access to status on such orders is provided via the following electronic interfaces:
- 5.5.1 Pacific Bell Order Dispatch (PBOD) functions via DataGate allows CLEC to check status of basic exchange service orders that require field work. **PACIFIC** also offers Provisioning order status to check the status of service orders.
 - 5.5.2 For EDI ordering, **PACIFIC** shall provide CLEC, and CLEC shall use, an EDI interface for transferring and receiving orders, Firm Order Confirmation (FOC), service completion, and, as available, other provisioning data and information. **PACIFIC** will provide CLEC with a FOC for each Resale service.
 - 5.5.3 For terms and conditions for service order error correction within SORD, see section 5.4.3.
- 5.6 Provisioning for Resale Services in **SBC-AMERITECH** and **SNET**: **SBC-AMERITECH** and **SNET** will provision Resale services as detailed in CLEC order requests. Access to status on such orders will be provided via the following electronic interfaces:
- 5.6.1 For EDI ordering, **SBC-AMERITECH** and **SNET** provide CLEC, and CLEC shall use, an EDI interface for transferring and receiving orders, FOC, Service Order Completion (SOC), and, as available, other provisioning data

and information. **SBC-AMERITECH** and **SNET** will provide CLEC with a FOC for each Resale service.

6. MAINTENANCE/REPAIR

- 6.1 Two real time electronic interfaces are accessible in each region to place, and check the status of, trouble reports for both Resale services. Upon request, CLEC may access these functions via the following methods:
 - 6.1.1 In **SBC-SWBT**, Trouble Administration (TA) system access provides CLEC with **SBC-SWBT** software that allows CLEC to submit trouble reports and subsequently check status on trouble reports for CLEC End-Users. TA will provide the ability to review the maintenance history of a converted Resale CLEC account. TA is accessible via **SBC-SWBT** Toolbar.
 - 6.1.2 In **PACIFIC** and **NEVADA**, Pacific Bell Service Manager (PBSM) allows CLECs to perform MLT, issue trouble tickets, view status, and view trouble history on-line.
 - 6.1.3 In **SBC-AMERITECH**, Electronic Bonding for Trouble Administration (EBTA-GUI) allows CLEC to issue trouble tickets, view status, and view trouble history on-line.
 - 6.1.4 In **SNET** the maintenance and repair functionality for Resale services is available via the MSAP EDI interface. In addition, for Resale products and services, trouble history and trouble status functions are available via CCTOOLS.
 - 6.1.5 In **SBC-12STATE**, Electronic Bonding Interface (EBI) is an interface that is available for trouble report submission and status updates. EBI conforms to ANSI guidelines T1.227:1995 and T1.228:1995, Electronic Communications Implementation Committee (ECIC) Trouble Report Format Definition (TFRD) Number 1 as defined in ECIC document ECIC/TRA/95-003, and all guidelines referenced within those documents, as mutually agreed upon by CLEC and **SBC-12STATE**. Functions currently implemented include Enter Trouble, Request Trouble Report Status, Add Trouble Information, Modify Trouble Report Attributes, Trouble Report Attribute Value Change Notification, and Cancel Trouble Report, as explained in 6 and 9 of ANSI T1.228:1995. CLEC and **SBC-12STATE** will exchange requests over a mutually agreeable X.25-based network.

7. BILLING

- 7.1 **SBC-7STATE** will bill CLEC for Resold services. **SBC-7STATE** will send associated billing information to CLEC as necessary to allow CLEC to perform billing functions. At minimum **SBC-7STATE** will provide CLEC billing information in a paper format or via magnetic tape, as agreed to between CLEC and **SBC-7STATE**.
- 7.1.1 For Resale Services in **PACIFIC**, CLEC may elect to receive Custom Billing Disk/ CD Bill. Custom Billing Disk/ CD Bill provides an electronic bill with the same information as a paper bill along with various reporting options.
- 7.1.2 For Resale Services in **SBC-AMERITECH**, CLEC may elect to receive its bill on CD.
- 7.2 Electronic access to billing information for Resale services will also be available via the following interfaces:
- 7.2.1 In **SBC-SWBT**, CLEC may receive Bill PlusTM, an electronic version of its bill, as described in, and in accordance with, **SBC-SWBT**'s Local Exchange Tariff.
- 7.2.2 In **SBC-SWBT**, CLEC may also view billing information through the Bill Information interface. Bill Information will be accessible via **SBC-SWBT** Toolbar.
- 7.2.3 In **SBC-7STATE**, CLEC may receive a mechanized bill format via the EDI 811 transaction set.
- 7.2.4 In **SBC-12STATE**, CLEC may receive electronically a Usage Extract Feed, or in **SNET**, a Daily Usage Feed (DUF). On a daily basis, this feed provides information on the usage billed to its accounts for Resale services in the industry standardized EMR format.
- 7.2.5 In **SBC-7STATE**, CLEC may receive Local Disconnect Report records (via CARE records) or, in **SNET** Loss Notification File (via CARE-like records), electronically, that indicate when CLEC's End Users change their Competitive Local Exchange Carrier. In **SBC-AMERITECH** this information is provided via the EDI 836 transaction set.
- 7.2.6 In **SNET**, CLEC may receive a Billing Detail File on cartridge or magnetic tape.

7.2.7 In **SBC-AMERITECH**, CLEC may receive a mechanized bill via the **SBC-AMERITECH** Electronic Billing System (AEBS) transaction set.

8. REMOTE ACCESS FACILITY

- 8.1 For the **SBC-SWBT** region, CLEC must access the following OSS interfaces via a CLEC Remote Access Facility (LRAF) located in Dallas, Texas: R-EASE; B-EASE; DataGate; EDI-Ordering; SORD; Electronic Bonding via EDI/SSL or CORBA; and via Toolbar, Trouble Administration, Order Status, Provisioning Order Status, Verigate, LEX, and Bill Information. Connection to the LRAF will be established via a “port” either through dial-up or direct connection as described in Section 8.3. CLEC may utilize a port to access these interfaces to perform the supported functions in any SBC-SWBT state where CLEC has executed an Appendix OSS.
- 8.2 In **PACIFIC** and **NEVADA** regions, CLEC must access the following OSS interfaces via a CLEC Remote Access Facility (PRAF) located in Fairfield, California: StarWriter; DataGate; EDI-Ordering; SORD; Electronic Bonding via EDI/SSL or CORBA; and via Toolbar Verigate, LEX, Order Status, PBSM, and Provisioning Order Status. Connection to the PRAF will be established via a “port” either through dial-up or direct connection as described in Section 8.3. CLEC may utilize a port to access these interfaces to perform the supported functions in **PACIFIC** or **NEVADA** where CLEC has executed an Appendix OSS and purchases System Access in that state.
- 8.3 For **SBC-7STATE**, CLEC may use three types of access: Switched, Private Line, and Frame Relay. For Private Line and Frame Relay “Direct Connections,” CLEC shall provide its own router, circuit, and two Channel Service Units/Data Service Units (CSU/DSU). The demarcation point shall be the router interface at the LRAF and/or PRAF. Switched Access “Dial-up Connections” require CLEC to provide its own modems and connection to the **SBC-SWBT** LRAF and the **PACIFIC** PRAF. CLEC shall pay the cost of the call if Switched Access is used.
- 8.4 For **SBC-7STATE**, CLEC shall use TCP/IP to access **SBC-7STATE** OSS via the LRAF and the PRAF. In addition, each CLEC shall have one valid Internet Protocol (IP) network address per region. CLEC shall maintain a user-id /password unique to each individual for accessing a **SBC-SWBT** OSS and **PACIFIC** OSS on CLEC’s behalf. CLEC shall provide estimates regarding its volume of transactions, number of concurrent users, desired number of private line or dial-up (switched) connections, and length of a typical session.
- 8.5 For **SBC-7STATE**, CLEC shall attend and participate in implementation meetings to discuss CLEC LRAF/PRAF access plans in detail and schedule testing of such connections.

- 8.6 For **SBC-AMERITECH**, CLEC may use four types of access: DSO (56KB), DS1 (1.5MB), dedicated and Frame Relay (DS0 and DS1). CLEC shall provide its own router, circuit, and two Channel Service Units/Data Service Units (CSU/DSU). CLEC must use a legal IP address for its end of the connection.
- 8.7 For **SNET** region, CLEC may use a private line connection. The CLEC shall provide and maintain own router and CSU/DSU.

9. DATA CONNECTION SECURITY REQUIREMENTS

- 9.1 CLEC agrees that interconnection of AT&T data facilities with **SBC-13STATE** data facilities for access to OSS will be in compliance with **SBC-13STATE**'s Competitive Local Exchange Carrier (CLEC) Operations Support System Interconnection Procedures document current at the time of initial connection to a RAF. The following additional terms in this Section 8 govern direct and dial up connections between AT&T and the PRAF and LRAF for access to OSS Interfaces.
- 9.2 **Joint Security Requirements:**
- 9.2.1 Both Parties will maintain accurate and auditable records that monitor user authentication and machine integrity and confidentiality (e.g., password assignment and aging, chronological logs configured, system accounting data, etc.)
- 9.2.2 Both Parties shall maintain accurate and complete records detailing the individual data connections and systems to which they have granted the other Party access or interface privileges. These records will include, but are not limited to, userID assignment, user request records, system configuration, and time limits of user access or system interfaces. These records should be kept until the termination of this Agreement or the termination of the requested access by the identified individual. Either Party may initiate a compliance review of the connection records to verify that only the agreed to connections are in place and that the connection records are accurate.
- 9.2.3 Each Party shall notify the other party immediately, upon termination of employment of an individual user with approved access to the other Party's network.
- 9.2.4 Both Parties shall use an industry standard virus detection software program at all times. The Parties shall immediately advise each other by telephone upon actual knowledge that a virus or other malicious code has been transmitted to the other Party.

- 9.2.5 All physical access to equipment and services required to transmit data will be in secured locations. Verification of authorization will be required for access to all such secured locations. A secured location is where walls and doors are constructed and arranged to serve as barriers and to provide uniform protection for all equipment used in the data connections which are made as a result of the user's access to either the CLEC or **SBC-13STATE** network. At a minimum, this shall include: access doors equipped with card reader control or an equivalent authentication procedure and/or device, and egress doors which generate a real-time alarm when opened and which are equipped with tamper resistant and panic hardware as required to meet building and safety standards.
- 9.2.6 Both Parties shall maintain accurate and complete records on the card access system or lock and key administration to the rooms housing the equipment utilized to make the connection(s) to the other Party's network. These records will include management of card or key issue, activation or distribution and deactivation.

9.3 Additional Responsibilities of Both Parties:

- 9.3.1 Modem/DSU Maintenance And Use Policy: To the extent the access provided hereunder involves the support and maintenance of AT&T equipment on **SBC-13STATE**'s premises, such maintenance will be provided under the terms of the Competitive Local Exchange Carrier (CLEC) Operations Support System Interconnection Procedures document cited above.
- 9.3.2 Monitoring: Each Party will monitor its own network relating to any user's access to the Party's networks, processing systems, and applications. This information may be collected, retained, and analyzed to identify potential security risks without notice. This information may include, but is not limited to, trace files, statistics, network addresses, and the actual data or screens accessed or transferred.
- 9.3.3 Each Party shall notify the other Party's security organization immediately upon initial discovery of actual or suspected unauthorized access to, misuse of, or other "at risk" conditions regarding the identified data facilities or information. Each Party shall provide a specified point of contact. If either Party suspects unauthorized or inappropriate access, the Parties shall work together to isolate and resolve the problem.
- 9.3.4 In the event that one Party identifies inconsistencies or lapses in the other Party's adherence to the security provisions described herein, or a discrepancy is found, documented, and delivered to the non-complying Party, a corrective action plan to address the identified vulnerabilities must be provided by the non-

complying Party within thirty (30) calendar days of the date of the identified inconsistency. The corrective action plan must identify what will be done, the Party accountable/responsible, and the proposed compliance date. The non-complying Party must provide periodic status reports (minimally monthly) to the other Party's security organization on the implementation of the corrective action plan in order to track the work to completion.

- 9.3.5 In the event there are technological constraints or situations where either Party's corporate security requirements cannot be met, the Parties will institute mutually agreed upon alternative security controls and safeguards to mitigate risks.
- 9.3.6 All network-related problems will be managed to resolution by the respective organizations, AT&T or **SBC-13STATE**, as appropriate to the ownership of a failed component. As necessary, AT&T and **SBC-13STATE** will work together to resolve problems where the responsibility of either Party is not easily identified.

9.4 Information Security Policies And Guidelines For Access To Computers, Networks and Information By Non-Employee Personnel:

- 9.4.1 Information security policies and guidelines are designed to protect the integrity, confidentiality and availability of computer, networks and information resources. Section 9.5 – 9.11 summarizes the general policies and principles for individuals who are not employees of the Party that provides the computer, network or information, but have authorized access to that Party's systems, networks or information. Questions should be referred to AT&T or **SBC-13STATE**, respectively, as the providers of the computer, network or information in question.
- 9.4.2 It is each Party's responsibility to notify its employees, contractors and vendors who will have access to the other Party's network, on the proper security responsibilities identified within this Attachment. Adherence to these policies is a requirement for continued access to the other Party's systems, networks or information. Exceptions to the policies must be requested in writing and approved by the other Party's information security organization.

9.5 General Policies:

- 9.5.1 Each Party's resources are for approved business purposes only.
- 9.5.2 Each Party may exercise at any time its right to inspect, record, and/or remove all information contained in its systems, and take appropriate action should unauthorized or improper usage be discovered.

- 9.5.3 Individuals will only be given access to resources that they are authorized to receive and which they need to perform their job duties. Users must not attempt to access resources for which they are not authorized.
- 9.5.4 Authorized users must not develop, copy or use any program or code which circumvents or bypasses system security or privilege mechanism or distorts accountability or audit mechanisms.
- 9.5.5 Actual or suspected unauthorized access events must be reported immediately to each Party's security organization or to an alternate contact identified by that Party. Each Party shall provide its respective security contact information to the other.

9.6 User Identification:

- 9.6.1 Access to each Party's corporate resources will be based on identifying and authenticating individual users in order to maintain clear and personal accountability for each user's actions.
- 9.6.2 User identification shall be accomplished by the assignment of a unique, permanent userID, and each userID shall have an associated identification number for security purposes.
- 9.6.3 Users will be revalidated on a monthly basis.

9.7 User Authentication:

- 9.7.1 Users will usually be authenticated by use of a password. Strong authentication methods (e.g. one time passwords, digital signatures, etc.) may be required in the future.
- 9.7.2 Passwords must not be stored in script files.
- 9.7.3 Passwords must be entered by the user in real time.
- 9.7.4 Passwords must be at least 6-8 characters in length, not blank or a repeat of the userID; contain at least one letter, and at least one number or special character must be in a position other than the first or last one. This format will ensure that the password is hard to guess. Most systems are capable of being configured to automatically enforce these requirements. Where a system does not mechanically require this format, the users must manually follow the format.
- 9.7.5 Systems will require users to change their passwords regularly (usually every 31 days).

9.7.6 Systems are to be configured to prevent users from reusing the same password for 6 changes/months.

9.7.7 Personal passwords must not be shared. A user who has shared his password is responsible for any use made of the password.

9.8 Access and Session Control:

9.8.1 Destination restrictions will be enforced at remote access facilities used for access to OSS Interfaces. These connections must be approved by each Party's corporate security organization.

9.8.2 Terminals or other input devices must not be left unattended while they may be used for system access. Upon completion of each work session, terminals or workstations must be properly logged off.

9.9 User Authorization:

9.9.1 On the destination system, users are granted access to specific resources (e.g. databases, files, transactions, etc.). These permissions will usually be defined for an individual user (or user group) when a userID is approved for access to the system.

9.10 Software And Data Integrity:

9.10.1 Each Party shall use a comparable degree of care to protect the other Party's software and data from unauthorized access, additions, changes and deletions as it uses to protect its own similar software and data. This may be accomplished by physical security at the work location and by access control software on the workstation.

9.10.2 Untrusted software or data shall be scanned for viruses before use on a Party's corporate facilities that can be accessed through the direct connection or dial up access to OSS interfaces.

9.10.3 Unauthorized use of copyrighted software is prohibited on each Party's corporate systems that can be access through the direct connection or dial up access to OSS Interfaces.

9.10.4 Proprietary software or information (whether electronic or paper) of a Party shall not be given by the other Party to unauthorized individuals. When it is no longer needed, each Party's proprietary software or information shall be returned by the other Party or disposed of securely. Paper copies shall be shredded. Electronic copies shall be overwritten or degaussed.

9.11 Monitoring And Audit:

9.11.1 To deter unauthorized access events, a warning or no trespassing message will be displayed at the point of initial entry (i.e., network entry or applications with direct entry points). Each Party should have several approved versions of this message. Users should expect to see a warning message similar to this one:

*"This is a (**SBC-13STATE** or AT&T) system restricted to Company official business and subject to being monitored at any time. Anyone using this system expressly consents to such monitoring and to any evidence of unauthorized access, use, or modification being used for criminal prosecution."*

9.11.2 After successful authentication, each session will display the last logon date/time and the number of unsuccessful logon attempts. The user is responsible for reporting discrepancies.

10. OPERATIONAL READINESS TEST (ORT) FOR ORDERING/PROVISIONING AND REPAIR/ MAINTENANCE INTERFACES

10.1 Prior to live access to interface functionality, the Parties must conduct Operational Readiness Testing (ORT), which will allow for the testing of the systems, interfaces, and processes for the OSS functions. ORT will be completed in conformance with agreed upon processes and implementation dates.

10.2 Prior to live system usage, CLEC must complete user education classes for **SBC-13STATE**-provided interfaces that affect the **SBC-13STATE** network. Course descriptions for all available classes by region are posted on the CLEC website in the Customer Education section. CLEC Training schedules by region are also available on the CLEC website and are subject to change, with class lengths varying. Classes are train-the-trainer format to enable CLEC to devise its own course work for its own employees. Charges as specified below will apply for each class:

Training Rates	5 day class	4.5 day class	4 day class	3.5 day class	3 day class	2.5 day class	2 day class	1.5 day class	1 day class	1/2 day class
1 to 5 students	\$4,050	\$3,650	\$3,240	\$2,835	\$2,430	\$2,025	\$1,620	\$1,215	\$810	\$405
6 students	\$4,860	\$4,380	\$3,890	\$3,402	\$2,915	\$2,430	\$1,945	\$1,455	\$970	\$490
7 students	\$5,670	\$5,100	\$4,535	\$3,969	\$3,400	\$2,835	\$2,270	\$1,705	\$1,135	\$570
8 students	\$6,480	\$5,830	\$5,185	\$4,536	\$3,890	\$3,240	\$2,590	\$1,950	\$1,300	\$650
9 students	\$7,290	\$6,570	\$5,830	\$5,103	\$4,375	\$3,645	\$2,915	\$2,190	\$1,460	\$730
10 students	\$8,100	\$7,300	\$6,480	\$5,670	\$4,860	\$4,050	\$3,240	\$2,430	\$1,620	\$810
11 students	\$8,910	\$8,030	\$7,130	\$6,237	\$5,345	\$4,455	\$3,565	\$2,670	\$1,780	\$890
12 students	\$9,720	\$8,760	\$7,780	\$6,804	\$5,830	\$4,860	\$3,890	\$2,920	\$1,945	\$970

- 10.3 A separate agreement will be required as a commitment to pay for a specific number of CLEC students in each class. CLEC agrees that charges will be billed by **SBC-13STATE** and CLEC payment is due thirty (30) days following the bill date. CLEC agrees that personnel from other competitive Local Service Providers may be scheduled into any class to fill any seats for which the CLEC has not contracted. Class availability is first-come, first served with priority given to CLECs who have not yet attended the specific class.
- 10.4 Class dates will be based upon **SBC-13STATE** availability and will be coordinated among CLEC, the CLEC's **SBC-13STATE** Account Manager, and **SBC-13STATE** Industry Markets CLEC Training Product Management.
- 10.5 CLEC agrees to pay the cancellation fee of the full price noted in the separate agreement if CLEC cancels scheduled classes less than two (2) weeks prior to the scheduled start date. CLEC agrees to provide to **SBC-13STATE** completed registration forms for each student no later than one week prior to the scheduled training class.
- 10.6 CLEC agrees that CLEC personnel attending classes are to utilize only training databases and training presented to them in class. Attempts to access any other **SBC-13STATE** system are strictly prohibited.
- 10.7 CLEC further agrees that training material, manuals and instructor guides can be duplicated only for internal use for the purpose of training employees to utilize the capabilities of **SBC-13STATE**'s OSS in accordance with this Appendix and shall be deemed "Proprietary Information" and subject to the terms, conditions and limitations of Section 20 of the General Terms and Conditions.

11. MISCELLANEOUS CHARGES

- 11.1 For **SBC-SWBT** region only, CLEC requesting the Bill Plus™, as described in 7.2.1, agrees to pay applicable tariffed rate, less Resale discount.
- 11.2 For **SBC-7STATE**, CLEC requesting the billing function for Usage Billable Records, as described in 7.2.4 and 7.3.3, agrees to pay established rates pursuant to Appendix Pricing.
- 11.3 For **SBC-7STATE**, CLEC requesting the Local Disconnect Report, as described in 7.2.5 and 7.3.4, agrees to pay established rates pursuant to Appendix Pricing.
- 11.4 For **SBC-13STATE**, should CLEC request custom development of an exclusive interface to support OSS functions, such development will be considered by **SBC-13STATE** on an Individual Case Basis (ICB) and priced as such.
- 11.5 **SNET** will charge for the Billing Detail File, Daily Usage Feed, and Loss Notification File at rates filed and approved by DPUC.

12. APPLICABILITY OF OTHER RATES, TERMS AND CONDITIONS

- 12.1 Every resale service provided hereunder, shall be subject to all rates, terms and conditions contained in this Agreement which are legitimately related to such resale service. Without limiting the general applicability of the foregoing, the following terms and conditions of the General Terms and Conditions are specifically agreed by the Parties to be legitimately related to, and to be applicable to, each resale service provided hereunder: introduction, definitions, interpretation, construction and severability; description and charges of service; notice of changes; general responsibilities of the Parties; effective date, term and termination; fraud by end users; deposits; billing and payment of charges; non-payment and procedures for disconnection; services; additional terms applicable to resale of services; ancillary services; network and service order conditions; dispute resolution; audits; responsibilities of SWBT; disclaimer of representations and warranties; limitation of liability; responsibilities of CLEC; indemnification; remedies; intellectual property; notices; publicity and use of trademarks or service marks; no license; confidentiality; intervening law; governing law; regulatory approval; changes in End User local exchange service provider selection; compliance and certification; law enforcement; no third party beneficiaries; disclaimer of agency; relationship of the Parties/independent contractor; subcontracting; delegation to affiliate; assignment; force majeure; taxes; non-waiver; customer inquiries; expenses; conflicts of interest; survival; appendices incorporated by reference; authority; counterparts; amendments and modifications; and entire agreement.